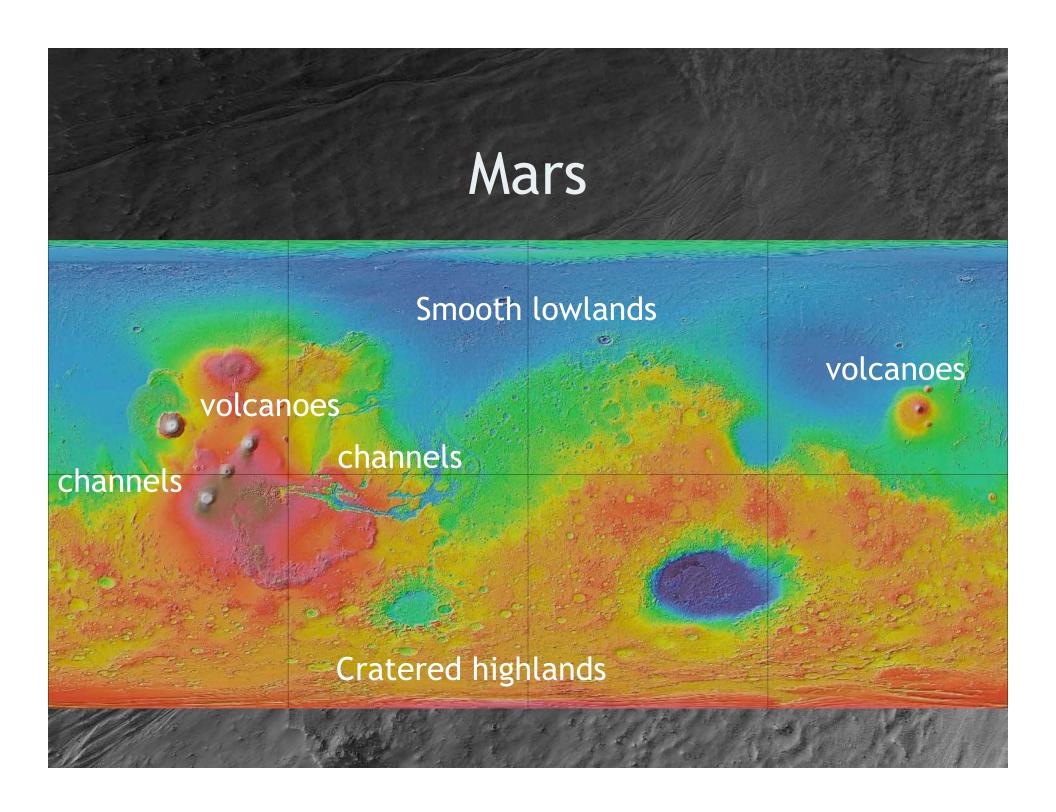
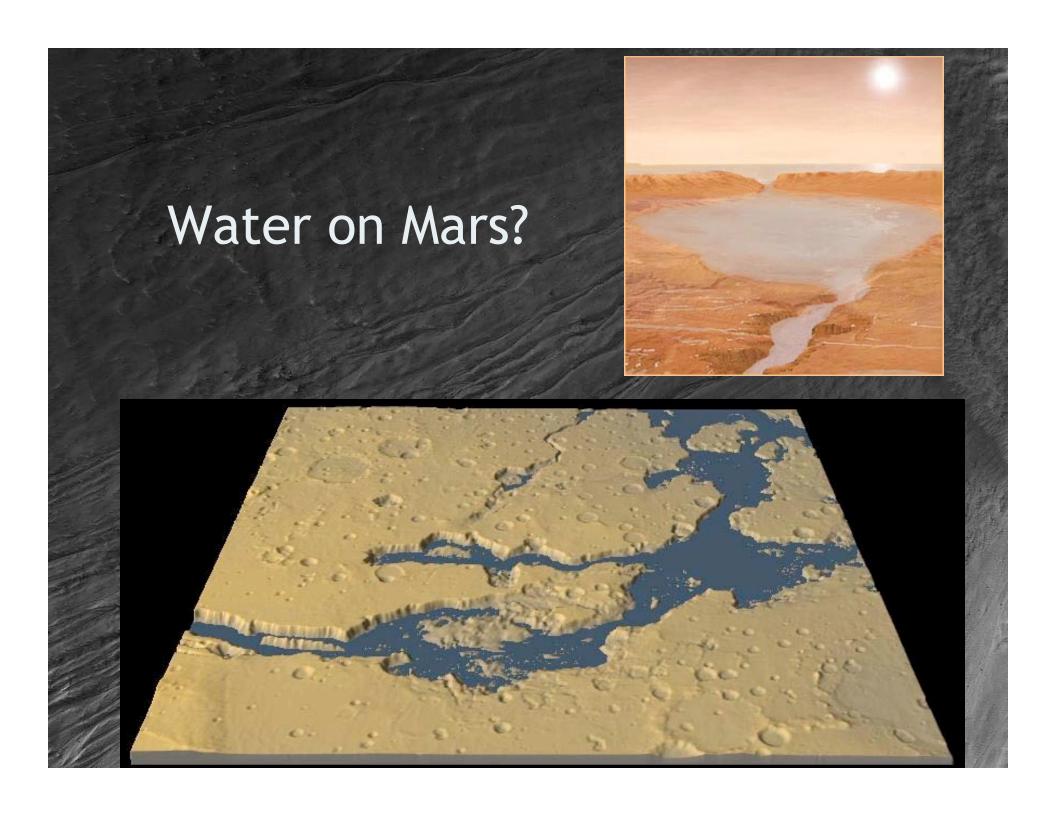


What are we going to do today?

- Talk briefly about the motivation to study Mars
- Meet the team
- Learn about MRO and HiRISE
- Look at some of the HiRISE Images
- Learn how to get prepared to suggest images
- Learn how to use HiWeb to make suggestions
- Answer any questions



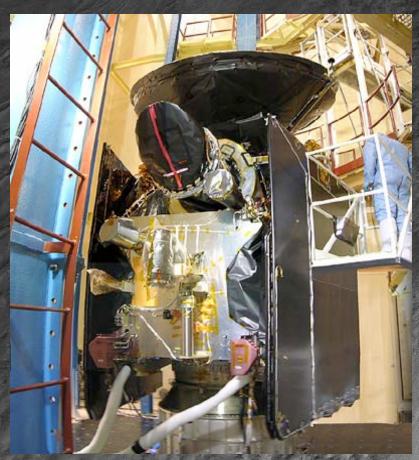
Water on Mars? b.y.a. 3.8 3.5 4.0 2.0 1.0 Now





MRO: Mars Reconnaissance Orbiter





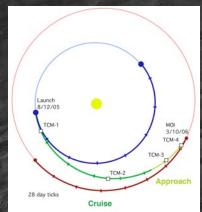
MRO in thermal vacuum chamber

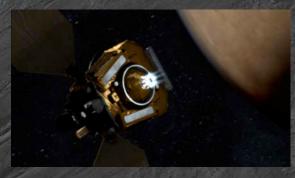
MRO Mission Overview

Launch — August 12, 2005

Interplanetary Cruise-August 2005 - March 2006 Approach and
 Orbit Insertion
 March 10, 2006







Aerobraking
March - September 2006



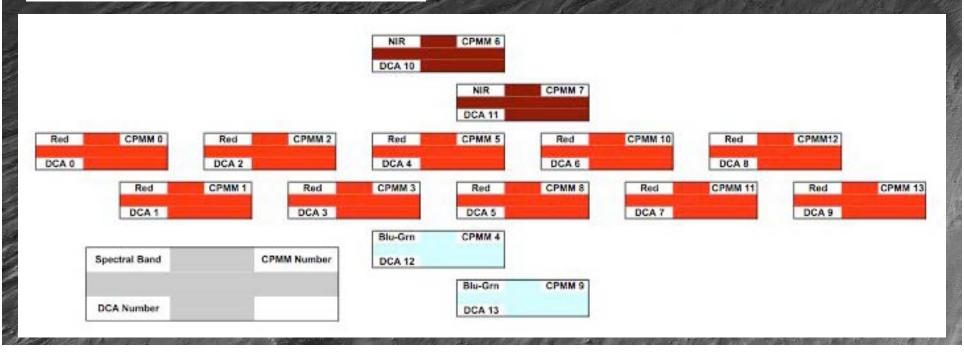
Primary Science Phase November 7, 2006 - December 2010







HiRISE: High Resolution Imaging Science Experiment



First Steps: Learn about Mars & HiRISE

http://marsoweb.nas.nasa.gov/hirise/

Check out all of the links:

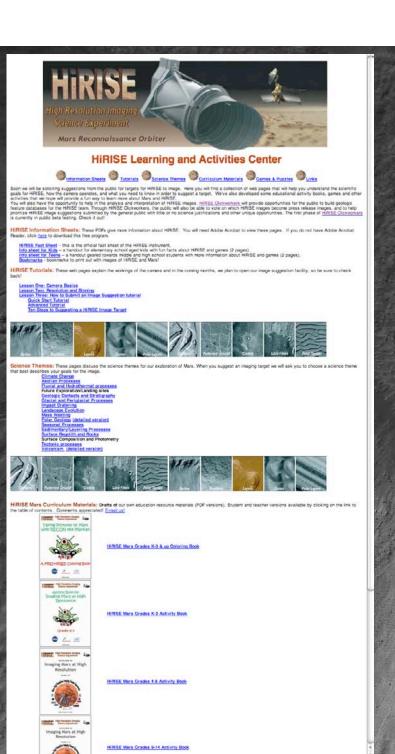
- Image viewer
- HiRISE blog
- Games and activities
- Clickworkers

The website also has more indepth information on the instrument, current research and more.





- Learning & Activity
 Center
 - (http://hirise.seti.org/hirise)
 - Read fact sheets, play games, do activities
 - Read about the camera and science themes



First Steps: Learn about Mars & HiRISE

→ C + http://clickworkers.arc.nasa.gov/landforms?clickworker=23381176366732000&camera=hirise O - Q- Google This is a tiny piece of one of the images from HIRISE. (If you happen to get an all-black area, it's from the border of a Stamp landform Clickworkers Clickworkers (http://clickworkers.arc.nasa. gov/hirise) If you see dunes on the right, please click in the middle of the the area with dunes. --You have marked: How sure are you that this is dunes? maybe O O O definitely How sure are you that this is dunes? How sure are you that this is dunes? How sure are you that this is dunes? maybe O O O definitely

First Steps: Learn about Mars & HiRISE

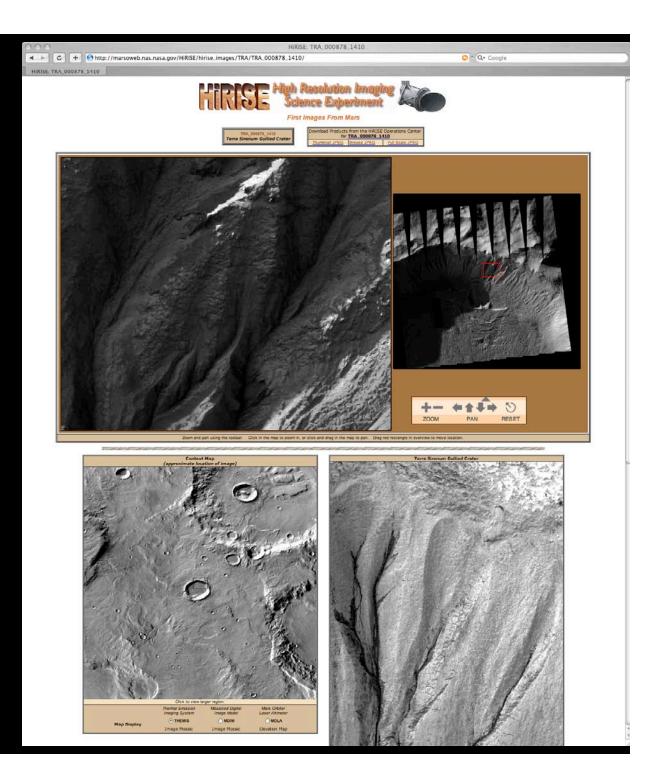
HiRISE Online Image Viewer

★ Http://marsoweb.nas.nasa.gov/HiRISE/hirise_images/ Q+ Google HiRISE Online Image Viewer Viewing Images Use the zoomable Mars map or the menu to select an image to explore in full-resolution. Latest Two TRA_000870_1995: Nili Fossoe TRA 000871 2215: Hummacky Terrain on Mareux Crater Wall TRA_000873_1415; Victoria Crater Warm-Up Image TRA_000873_1780: Victoria Crater at Meridiani Planum TRA 000873 2015: Layed Deposits in Becaused Crater TRA_000875_1765: MOC and HIRISE comparison of Juventae Chasma TRA_000878_2660: North Polar Layered Deposits TRA_000880_1905: Cerberus Plains Boundary TRA 000881 1750: Gale Crater Interior TRA_000881_2475: Northern Plains TRA_000882_1595: Fresh Crater in Hesperia Planitia TRA 000882 2705: North Polar Layered Deposits TRA 000883 2005; NIII Fossoe

TRA_000894_2475: Northern Plains
TRA_000896_2220: Northern Plains
TRA_000897_1275: Seasonally Frost-Covered Region

First Steps: Learn about Mars & HiRISE

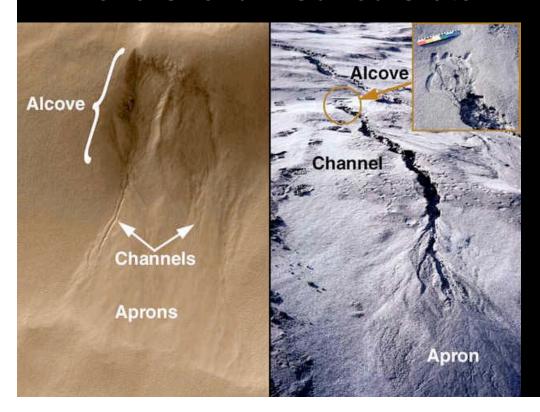
Viewing Images



- Gullies
- Valley networks
- Channel systems
- Crater lakes
- Shorelines

Remember scale: You won't be able to see an entire channel system, crater, or valley network. What part of the system do you think is most valuable to see with high resolution imagery to see evidence of past water?

Terra Sirenum Gullied Crater





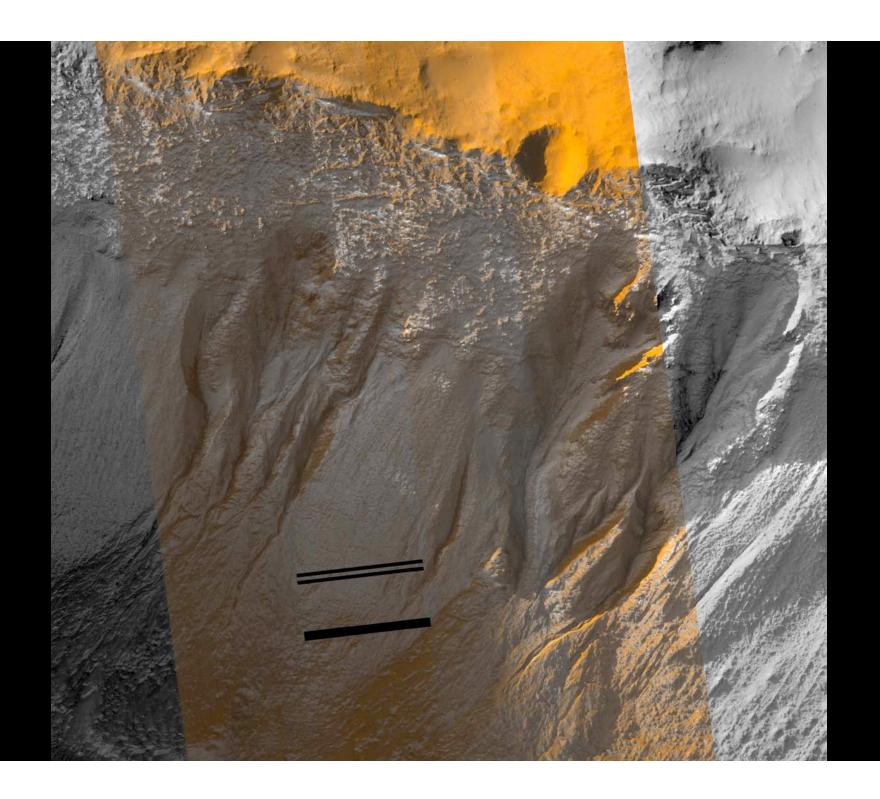


Re-image to monitor changes?



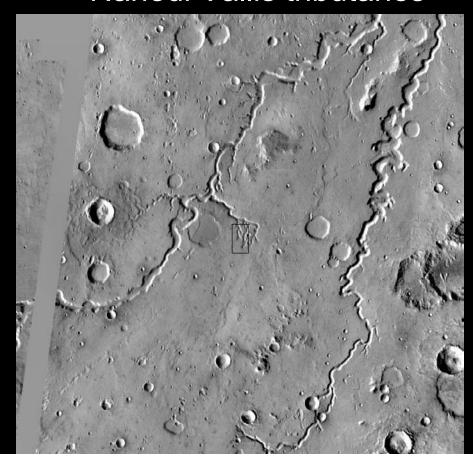
Re-image to monitor changes?

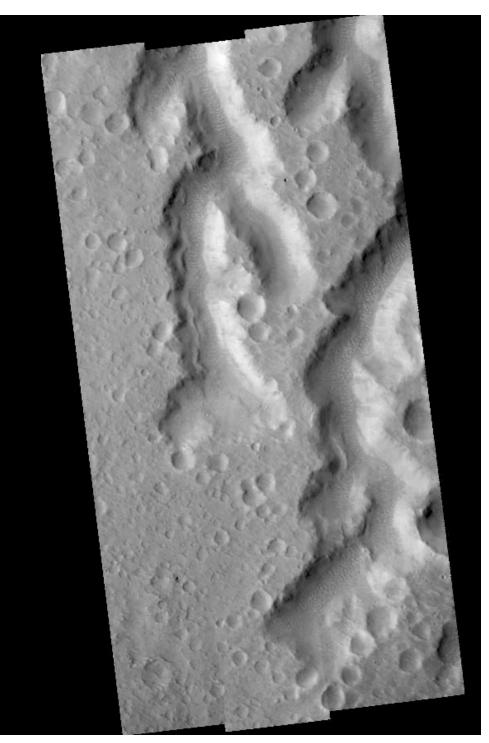






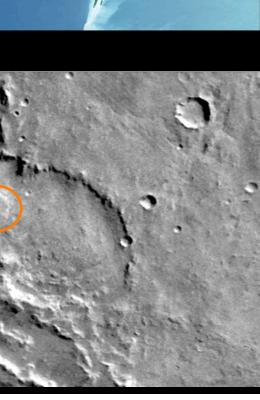
Nanedi Vallis tributaries





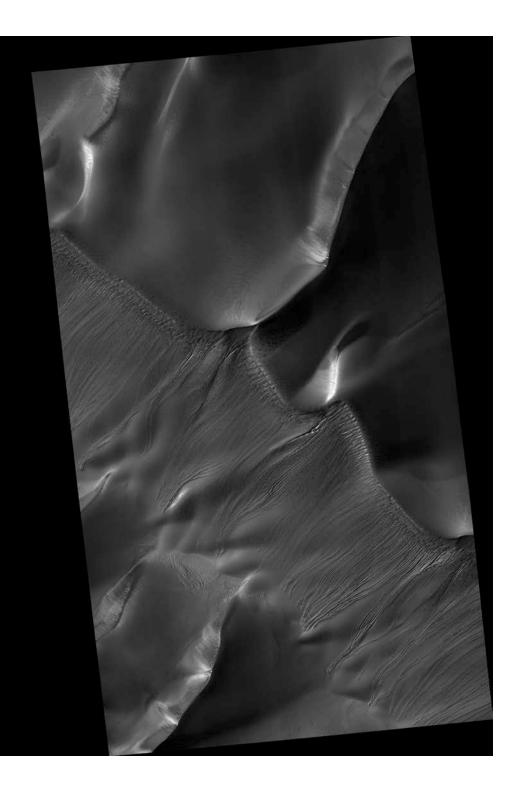


Next: What are some examples of water-related





Maybe? Channels on Dunes in Russell Crater



Finally: Make your target suggestion using HiWeb

- Log in
- Look at Mars using all of the imagery available (Viking, MOC, MOLA, THEMIS, TES)
- Use High-res MOC and Themis images to choose your site
 - Choose an entirely new site
 - Re-image a site in HiRISE (S. mid lat.)
- Register to make your target suggestion

(If you get lost, you can check out the tutorials on the HiRISE Learning Page for help)

